BRUHAT BANGALORE MAHANAGARA PALIKE
RAJARAJESHWARI NAGAR ZONE
O/o Executive Engineer(Ele), Rajarajeshwari nagara Zone, BBMP, Bangalore
Percentage tender Bill of Quantities

Memorandum showing the Specifications, Quantites and Rates of Items to be Executed

Name of Work : Providing Electrical Maintenance and Repair to BBMP Buildings and BBMP School in ward No.17 of RR Nagara Zone.

Name of the Agency :- Chowdeshwari Electricals

Sl.No	Total Qty	Description of Item	Unit	Sanctioned Estimate Rate in Rs		Amount
				In figure	In words	
1	2	Providing services of Clerk/computer operator/Dataentry operator/Tax collector/Electrician and other Skilled Workers.Skilled Electrician. Dept of labour No KAE 71 LWA 2015 Dtd:04/08/2016.	Per person per Month	13365.00	Rupees Thirteen Thousand Three Hundred and Sixty Five Only	26730.00
2	200	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm .... etc. as required. 25mm (Item No. - 1.8.2)	Mtr	26.00	Rupees Twenty Six Only	5200.00
3a	200	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS 694:1990 & confirming to GTP of GROUP -A. 1sqmm	Mtr.	13.00	Rupees Thirteen Only	2600.00
3b	400	1.5 sqmm	Mtr	18.60	Rupees Eighteen Only Paise Sixty Only	7440.00
3c	400	2.5 sqmm	Mtr	29.20	Rupees Twenty Nine Only Paise Nineteen Only	11680.00
3d	800	4 sqmm	Mtr	42.10	Rupees Forty Two Only Paise Ten Only	33680.00
4	200	Supplying and drawing PVC flexible copper wire of approved make in place of deteriorated wire. 23/0.0060"	Mtr	8.00	Rupees Eight Only	1600.00
5	16	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A Stepped Fan Regulator.	Each	286.00	Rupees Two Hundred and Eighty Six Only	4576.00
6a	75	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A 6Amps SP Switch	No	35.00	Rupees Thirty Five Only	2625.00
6b	10	6Amps 2way Switch	No	49.00	Rupees Forty Nine Only	490.00
6c	10	6Amps 3 way 5 pin Socket	No	53.00	Rupees Fifty Three Only	530.00
6d	10	6Amps 3 pin Top	No	51.00	Rupees Fifty One Only	510.00
6e	25	6Amps Bakelite ceiling rose	No	43.00	Rupees Forty Three Only	1075.00
6f	15	6 Amps lamp holder	No	48.00	Rupees Forty Eight Only	720.00
6g	5	6 Amps bell push	No	48.00	Rupees Forty Eight Only	240.00

Sl.No	Total Qty	Description of Item	Unit	Sanctioned Estimate Rate in Rs		Amoun
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6h	5	6 Amps bell buzzer	No	117.00	Rupees One Hundred and Seventeen Only	585.00
6i	5	16 Amps SP switch	No	89.00	Rupees Eighty Nine Only	445.00
6j	5	16 Amps 3 way 5 pin socket	No	94.00	Rupees Ninety Four Only	470.00
6k	5	16 Amps 3 pin top	No	77.00	Rupees Seventy Seven Only	385.00
7	42	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition LED light fighting 4' - 28 watts	No	1774.00	Rupees One Thousand Seven Hundred and Seventy Four Only	74508.00
8	42	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.	Each	98.00	Rupees Ninety Eight Only	4116.00
9	3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.	Each	234.00	Rupees Two Hundred and Thirty Four Only	702.00
10a	5	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 10 module	Each	227.00	Rupees Two Hundred and Twenty Seven Only	1135.00
10b	5	12 module	each	267.00	Rupees Two Hundred and Sixty Seven Only	1335.00
11	25	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps.	Each	88.00	Rupees Eighty Eight Only	2200.00
12	2	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.12"	Each	3654.00	Rupees Three Thousand Six Hundred and Fifty Four Only	7308.00
13	12	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)	Each	2376.00	Rupees Two Thousand Three Hundred and Seventy Six Only	28512.00
14	4	Supplying wall mounting fan suitable to operate at single-phase 230v A.C. supply. 300mm Sweep	Each	2424.00	Rupees Two Thousand Four Hundred and Twenty Four Only	9696.00

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15	16	Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired.	Each	237.00	Rupees Two Hundred and Thirty Seven Only	3792.00
16	2	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core	Each	412.00	Rupees Four Hundred and Twelve Only	824.00
17a	16	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (Item No. - 6.16) 5-	Each	418.00	Rupees Four Hundred and Eighteen Only	6688.00
17b	8	5-32 Amps DP	Each	849.00	Rupees Eight Hundred and Forty Nine Only	6792.00
17c	3	40-63 Amps	Each	1936.00	Rupees One Thousand Nine Hundred and Thirty Six Only	5808.00
18	3	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (Item No. - 7.1)	No	2727.00	Rupees Two Thousand Seven Hundred and Twenty Seven Only	8181.00
19	2	Supplying and fixing one of 230 volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws Ding Dong Bell	Each	200.00	Rupees Two Hundred Only	400.00
20	6	Supplying and fixing/replacing condenser for ceiling fan/MV/SV/MH and other luminaries. upto 4mfd	Each	104.00	Rupees One Hundred and Four Only	624.00

EE (Ele.)

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21	8	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing. (Item No. - 16.4)1200MM	Each	630.00	Rupees Six Hundred and Thirty Only	5040.00
22	8	Releasing the existing fan dismantling testing painting after removing the existing painting by scraping and cleaning (spray method) not less than 2 coats of approved make enamel paint to a ceiling fan and wiring and fixing of the same.	Each	278.00	Rupees Two Hundred and Seventy Eight Only	2224.00
23	80	Supply and fixing of heavy duty open construction ferromagnetic copper ballast for 20/40 watts fluorescent tubes.	Each	200.00	Rupees Two Hundred Only	16000.00
24	60	Releasing the existing FTL Fitting all capacities, checking, testing and installing at same place.	Each	30.00	Rupees Thirty Only	1800.00
25	120	Supplying and fixing/replacing of fluorescent tube. 18 to 40Watts	No	75.00	Rupees Seventy Five Only	9000.00
26	140	Supply and fixing of 230 volts 20/40 watts starter for fluorescent lamp.	No	31.00	Rupees Thirty One Only	4340.00
27	60	Supply and fixing of 230 volts 20/40 watts fluorescent lamp holder.	No	31.00	Rupees Thirty One Only	1860.00
28	6	Supplying and fixing 6Amps capacity 4 way universal shutter type spike buster suitable to operate on 230V 50Hz AC Supply.	No	613.00	Rupees Six Hundred and Thirteen Only	3678.00
29	75000	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. A) 14 SWG	sqcm	0.37	Rupees Zero Only Paise Thirty Seven Only	27750.00
30	65	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of	Mtr	204.00	Rupees Two Hundred and Four Only	13260.00

Sl.No	Total Qty	Description of Item	Unit	Sanctioned Estimate Rate in Rs		Amount
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31	65	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. 6 sqmm to 16 sqmm	Mtr	10.80	Rupees Ten Only Paise Eighty Only	702.00
32	60	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) In	Mtr	106.00	Rupees One Hundred and Six Only	6360.00
33	8	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. 40mm	Mtr	345.00	Rupees Three Hundred and Forty Five Only	2760.00
34	1	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. 35Sqmm	Each	362.00	Rupees Three Hundred and Sixty Two Only	362.00
35	40	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. Copper wire. 10 SWG	Each	69.30	Rupees Sixty Nine Only Paise Twenty Nine Only	2772.00
36	1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE	Each	5809.00	Rupees Five Thousand Eight Hundred and Nine Only	5809.00
37	1	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board. 63 amps 4 pole	Each	3350.00	Rupees Three Thousand Three Hundred and Fifty Only	3350.00
38	3	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C.	Each	442.00	Rupees Four Hundred and Forty Two Only	1326.00
39	1	Supplying, fixing and wiring rotary selector switch suitable for Ammeter.	Each	172.00	Rupees One Hundred and Seventy Two Only	172.00
40	1	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter.	Each	140.00	Rupees One Hundred and Forty Only	140.00
41	1	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board.	Each	390.00	Rupees Three Hundred and Ninety Only	390.00
42	1	Supplying, fixing and wiring 0 to 100amps Direct Reading AC analog type Ammeter	Each	452.00	Rupees Four Hundred and Fifty Two Only	452.00

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43	2	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. a)100Amps 4x30x6mm	mtr	2135.00	Rupees Two Thousand One Hundred and Thirty Five Only	4270.00
44	25	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. A) 50x50x6mm	mtr	338.00	Rupees Three Hundred and Thirty Eight Only	8450.00
45	110	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. a) 32mm dia 2.5mm thick	mtr	88.00	Rupees Eighty Eight Only	9680.00
46	0.6	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Item No. -4.5, Page No. 12) (2.19 cum/ foundation As per 2014-15 SR page no-42)	cum	5874.00	Rupees Five Thousand Eight Hundred and Seventy Four Only	3524.40
		Total				**399673.40**
		Tender Premium:- -23.20% Below				

I Agree to carry out this work at **-23.20%** Below the rates notified above as per the directions of Engineer incharge of Work

For Sri Chowdeshwari Electrical

Proprietor

Contractor Seal & Sign

Executive Engineer(Electrical)

Rajarajeshwarinagar zone, BBMP